

What is claimed is:

1. A part positioning device (41) for adjusting positions of target parts (3, 4, 5) of an adjustment target object (1) provided with the adjustment target parts (3, 4, 5) and adjusting members (7), the adjustment target object (1) having an article reference surface (S) defined thereon, the adjustment target parts (3, 4, 5) having part reference surfaces (3a, 4a, 5a) formed thereon respectively, wherein a relative height and inclination of each of the part reference surfaces (3a, 4a, 5a) is adjusted with respect to the article reference surface (S) of the adjustment target object (1) by turning the adjusting members (7),

the part positioning device comprising:

support members (48) for supporting the adjustment target object (1) at a plurality of locations;

a measuring device (51) for measuring the height and inclination of each of the part reference surfaces (3a, 4a, 5a) of the adjustment target parts (3, 4, 5); and

a turning operation device (54) for turning each of the adjusting members (7), wherein

each turning operation device (54) comprises an engaging part (55) which is engageable/disengageable with/from an engaged part (8) formed in the adjusting member (7), a turning operation part (57) which is turned through an external operation, and a bendable turning transmission shaft (59) which transmits the turning of the turning operation part (57) to the engaging part (55),

each engaging part (55) is disposed at a position facing the adjusting member (7) and moved in the engagement/disengagement direction with respect to the engaged part (8) by moving the turning operation part (57) in an axial direction of the turning transmission shaft (59) through an external operation, and

each turning operation part (57) is directed to a side where an operator performs operation.

2. The part positioning device (41) according to claim 1, wherein a first reference surface (45) and a second reference surface (47) are formed to have a predetermined positional relationship each other, a movable table (50) is formed on the first reference surface (45), the measuring device (51) is provided on the movable table (50), and the plurality of support members (48) are provided on the second reference surface (47).

3. The part positioning device (41) according to claim 1, wherein the adjustment target object (1) is supported by the support members (48) with the engaged parts (8) formed in the adjusting members (7) facing downward,

the measuring device (51) irradiates a laser beam downward from above on the top reference surfaces (3a, 4a, 5a) of the adjustment target parts (3, 4, 5) and measures the height and inclination of the top reference surfaces (3a, 4a, 5a),

the engaging part (55) of the turning operation device (54) is disposed to face upward at a position underneath the bottom face of the adjusting member (7), and is caused to move vertically with respect to the engaged part (8) to engage/disengage with/from the engaged part (8) by moving the turning operation part (57) horizontally (directions of C, D) through an external operation, and

each turning operation part (57) is provided on the front side where an operator performs operation.